



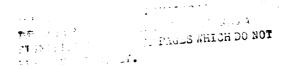


LONG ISLAND BASIN

BLIND BROOK COUNTRY CLUB DAM

WESTCHESTER COUNTY, NEW YORK INVENTORY NO. N.Y. 123

PHASE I INSPECTION REPORT
NATIONAL DAM SAFETY PROGRAM





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NEW YORK DISTRICT CORPS OF ENGINEERS

JULY 1981

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İ	dam as of the report date. Information and analysis	
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	The examination of documents and	the visual inspection
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Using the Corps of Engineers Screenig Criteria for the initial review of spillway adequacy, it has been determined that the dam would be overtopped for all storms exceeding approximately 17 percent of the Probable Maximum Flood (PMF). The spillway is therefore adjudged as "seriously inadequate" and the dam is assessed as unsafe, non-emergency.

The classification of "unsafe" applied to a dam because of a "seriously inadequate" spillway is not meant to connote the same degree of emergency as would be associated with an "unsafe" classification applied for a structural deficiency. It does mean, however, that based on an initial screening and preliminary computations, there appears to be a serious deficiency in spillway capacity so that if a severe storm were to occur, overtopping and failure of the dam would take place, significantly increasing the hazard for loss of life downstream from the dam,

The structural stability analysis based on available information, assumed strength parameters and visual inspection indicates that the stability against sliding and overturning of the spillway section of the dam is inadequate for normal loading cases and marginal during floods greater than 25 percent of the PMF.

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PREFACE

This report is prepared under guidance contained in the Recommended Guidelines for Safety Inspection of Dams, for Phase I Investigations. Copies of these guidelines may be obtained from the Office of Chief of Engineers, Washington, D. C., 20314. The purpose of a Phase I Investigation is to identify expeditiously those dams which may pose hazards to human life or property. The assessment of the general condition of the dam is based upon available data and visual inspections. Detailed investigations, and analyses involving topographic mapping, subsurface investigations, testing, and detailed computational evaluations are beyond the scope of a Phase I Investigation; however, the investigation is intended to identify any need for such studies.

In reviewing this report, it should be realized that the reported condition of the dam is based on observations of field conditions at the time of inspection along with data available to the inspection team. In cases where the reservoir was lowered or drained prior to inspection, such action, while improving the stability and safety of the dam, removes the normal load on the structure and may obscure certain conditions which might otherwise be detectable if inspected under the normal operating environment of the structure.

It is important to note that the condition of a dam depends on numerous and constantly changing internal and external conditions, and is evolutionary in nature. It would be incorrect to assume that the present condition of the dam will continue to represent the condition of the dam at some point in the future. Only through frequent inspections can unsafe conditions be detected and only through continued care and maintenance can these conditions be prevented or corrected.

Phase I inspections are not intended to provide detailed hydrologic and hydraulic analyses. In accordance with the established Guidelines, the Spillway Test flood is based on the estimated "Probable Maximum Flood" for the region (greatest reasonably possible storm runoff), or fractions thereof. Because of the magnitude and rarity of such a storm event, a finding that a spillway will not pass the test flood should not be interpreted as necessarily posing a highly inadequate condition. The test flood provides a measure of relative spillway capacity and serves as an aid in determining the need for more detailed hydrologic and hydraulic studies, considering the size of the dam, its general condition and the downstream damage potential.

PHASE I INSPECTION REPORT
NATIONAL DAM SAFETY PROGRAM
BLIND BROOK DAM
I.D. NO. N.Y. 123
N.Y. D.E.C. NO. 232C-2747
BLIND BROOK BASIN
WESTCHESTER COUNTY, N.Y.

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PHASE I INSPECTION REPORT NATIONAL DAM SAFETY PROGRAM

NAME OF DAM:

Blind Brook (N.Y. 123)

STATE LOCATED:

New York

COUNTY LOCATED:

Westchester

STREAM:

Blind Brook

BASIN:

Long Island Basin

DATE OF INSPECTION:

02 April 1981

ASSESSMENT

The examination of documents and the visual inspection of Blind Brook Dam did not reveal conditions which constitute an immediate hazard to human life or property. However, the dam has some deficiencies which require further investigations and remedial actions.

Using the Corps of Engineers Screenig Criteria for the initial review of spillway adequacy, it has been determined that the dam would be overtopped for all storms exceeding approximately 17 percent of the Probable Maximum Flood (PMF). The spillway is therefore adjudged as "seriously inadequate" and the dam is assessed as unsafe, non-emergency.

The classification of "unsafe" applied to a dam because of a "seriously inadequate" spillway is not meant to connote the same degree of emergency as would be associated with an "unsafe" classification applied for a structural deficiency. It does mean, however, that based on an initial screening and preliminary computations, there appears to be a serious deficiency in spillway capacity so that if a severe storm were to occur, overtopping and failure of the dam would take place, significantly increasing the hazard for loss of life downstream from the dam.

The structural stability analysis based on available information, assumed strength parameters and visual inspection indicates that the stability against sliding and overturning of the spillway section of the dam is inadequate for normal loading cases and marginal during floods greater than 25 percent of the PMF.

It is therefore recommended that within 3 months of notification to the owner, a detailed hydrological and hydraulic investigation be undertaken to more accurately determine the site specific characteristics of the watershed and their affect upon the overtopping potential of the dam. At the same time,

a structural stability study of the spillway section should be performed. Within eighteen (18) months of the date of notification to the owner, any modification to the structure deemed necessary as a result of investigations, to achieve a spillway capacity adequate to discharge the outflow from at least one-half (½) PMF, should have been completed. In the interim, a detailed emergency action plan and warning system should be promptly developed. Also, during periods of unusually heavy precipitation, around-the-clock surveillance should be provided.

In addition, the dam has a number of problem areas which, if left uncorrected, have the potential for the development of hazardous conditions and must be corrected within twelve (12) months.

The following recommended measures should be initiated immediately:

- 1. Monitor at biweekly intervals with the aid of weirs or other measuring devices the seepage which is occurring at each of the abutment contacts. Document this information for future reference.
- 2. Monitor by visual inspection the leakage through the structural cracks and vertical and horizontal lift lines along the downstream face. At the time when the reservoir is emptied, inspect the upstream surfaces to determine if the cracks are continuous through the dam. Document this information for future reference.
- 3. Provide a program of periodic inspection and maintenance of the dam and appurtenances, including yearly operation and lubrication of the reservoir drain and its control facilities. Document this information for future reference. The aforementioned emergency action plan should be maintained and updated periodically during the life of the structure.

Eugene D'Brien, P.E. New York No. 29823

Approved by:

Col. W.M. Smith, Jr. New York District Engineer

0 5 AUG 1981

Date:



OVERVIEW

PHASE I INSPECTION REPORT
NATIONAL DAM SAFETY PROGRAM
BLIND BROOK DAM
I.D. NO. N.Y. 123
N.Y. D.E.C. NO. 232C-2747
LONG ISLAND BASIN
WESTCHESTER COUNTY, N.Y.

SECTION 1 - PROJECT INFORMATION

1.1 GENERAL

a. Authority
The Phase I inspection reported herein was authorized by the Department of the Army, New York District, Corps of Engineers Contract No. DACW 51-81-C-0008 in a letter dated 14 December 1980 in fulfillment of the requirements of the National Dam Inspection Act, Public Law 92-367 dated 8 August 1972.

b. Purpose of Inspection
This inspection was conducted to evaluate the existing condition of the dam, to identify deficiencies and hazardous conditions, to determine if these deficiencies constitute hazards to life and property and to recommend remedial measures where required.

1.2 DESCRIPTION OF THE PROJECT

a. Description of the Dam and Appurtenant Structures
Blind Brook Dam is a concrete gravity structure consisting of a center spillway section flanked on each side by a non-overflow section. The dam is approximately 130 feet long, 32 feet high and has a maximum base width of 20 feet. The crest of the dam is 4.5 feet wide.

The spillway is an ogee-type structure consisting of 9 foot long by 3 foot wide overflow sections separated by vertical concrete piers which support a concrete walkway approximately 2 feet above the crest. The crest level of the two middle sections (El 229.5) is approximately 6 inches below the crest level of the adjacent four sections (El 230). A concrete apron is located at the base of the spillway structure and extends 6 feet downstream of the dam.

A concrete pumping platform is located at the top of the dam directly above the two center overflow sections. The platform is cantilevered upstream from the dam crest and supports pumping machinery and control facilities for the reservoir drain. The reservoir drain for the project consists of a 36-inch diameter steel pipe located at the base of the dam. A center rising screw-type valve is operated from the pumping platform and regulates discharge through the pipe.

The spillway discharges into a rock channel which runs perpendicular to the axis of the dam.

- b. Location
 Blind Brook Dam is located in the town of Purchase,
 Westchester County, New York. The dam is located off Anderson
 Hill Road, approximately 0.5 miles east of the Connecticut-New
 York State boundary.
- c. Size Classification
 The dam is 32 feet high and the reservoir has a storage capacity of 26 acre-feet. The dam is classified as "small" in size (26 to 40 feet).
- d. Hazard Classification
 The dam is classified as high hazard due to the large number of homes located 1000 feet downstream from the dam.
- e. Ownership
 The dam is owned and operated by the Blind Brook Country
 Club, P.O. Box 229, Purchase, N.Y., 10577, Tel. (914) 939-1566.
 The person to contact is Mr. Sabato Antorino, Superindentent of
 Maintenance.
- f. Purpose of Dam
 Blind Brook Dam creates a pool for irrigation of the
 Blind Brook Golf Course.
- g. Design and Construction History
 The dam was designed by Moran, Proctor, Mueser and
 Rutledge, Consulting Engineers (presently known as Mueser,
 Rutledge, Johnston & DeSimone), 415 Madison Avenue, New York,
 New York. The constructor of the dam is unknown. According
 to available documents, the dam was completed in 1959.
- h. Normal Operating Procedures
 According to Mr. Sabato Antorino, the reservoir is drained each fall to allow for storage of spring runoff. It was also reported that the reservoir is lowered prior to periods of high precipitation.

1.3 PERTINENT DATA

a. Drinage Arca, Square Miles 1.79

b.	Discharge at Damsite, cfs Maximum Known Flood at Dam- site	Unknow	Unknown			
	Spillway (Maximum Pool:					
	Top of Dam)	670 cf	s			
	Reservoir Drain (Maximum					
	Pool)	Unknow	m			
c.	Elevation, USGS Datum, MSL Top of Spillway:					
	Middle Two Sections	229.5				
	Adjacent Four Sections	230				
	Top of Non-Overflow Section	232.8	feet			
d.	Reservoir Length of Maximum Pool	350	feet			
	Length of Normal Pool (El 107.5)	350	feet			
e.	Storage					
	Maximum Pool		50 acre-feet			
	Normal Pool	26 acr	e-feet			
f.		** 1				
	Maximum Pool	Unknown				
	Normal Pool	Unknow	m			
g.	Overflow Section	0 1				
	Type	Ogee-t				
	Width	3 feet				
	Length	54 fee				
	Height	32 f€	eet			
	Slope: Upstream (H:V)	1:24				
	Downstream (H:V)	7:12				
	Apron	Concre	ete			
h.						
	Length: Left Section	22 fc				
		32 fe 32 fe	et.			
	Right Section	4.5 fe				
	Crest Width	7.0 fe				
	Platform Width	/.U IE	et			
i.	Low Level Outlet	Steel				
	Type	36-ind	rh.			
	Diameter Closure	Gate \				
	Reservoir Drain	Unknov				
	reservoir prain	OHAHOV	411			

SECTION 2 - ENGINEERING DATA

2.1 GEOLOGY

Blind Brook Dam is located in the New England Upland Section of the New England Maritime Physiographic Province (4). The bedrock in this Section consists of metamorphic, igneous and sedimentary rocks which have undergone a complex sequence of deposition, folding, faulting and erosion. The rock at the damsite is sound, hard, massive gneiss of Precambrian Age (5). This rock is exposed at the abutments as well as upstream and downstream of the dam.

2.2 SUBSURFACE INVESTIGATIONS

A subsurface exploration program was performed during initial design of the dam. The borehole data which were obtained are shown on the boring logs presented in Appendix A.

2.3 DESIGN RECORDS

The construction drawings which exist for the project are presented in Appendix A.

2.4 CONSTRUCTION RECORDS

Construction records are not available for the project.

2.5 OPERATION RECORDS

No operation records exist for the project.

2.6 EVALUATION OF DATA

The information obtained from the available documents and a visual inspection is considered adequate for a Phase I inspection and evaluation.

There are two inconsistencies in the available drawings:
(1) Plate 3 indicates four overflow sections, whereas six sections were observed during the visual inspection, and (2) the elevations shown on the drawings are different from those shown on the USGS Glenville Quadrangle Map, and is probably due to different datums. (For the purpose of this report, USGS datum is used except where noted.)

SECTION 3 - VISUAL INSPECTION

3.1 FINDINGS

a. General

A visual inspection of Blind Brook Dam was made on 2 April 1981. The weather was sunny and clear and the temperature was 65°F. At the time of this inspection, the reservoir level was approximately one inch above the crests of the two center spillway sections.

b. Dam

The structural condition of the visible portions of the spillway is considered to be good (See PHOTOGRAPHS 1 and 2). Surficial deterioration of concrete at vertical and horizontal joints exists on the downstream face, but is not considered to be serious (See PHOTOGRAPHS 3 and 4).

The general condition of the non-overflow section is also good. Some structural cracking does exist along the downstream face of the right section. Leakage has occurred through these features as evidenced by the staining and efflorescence which exist along these cracks (See PHOTOGRAPHS 3 and 5).

The vertical and horizontal alignment of the crest is good. The concrete along the dam crest and along the surfaces of the cantilevered platform is also good (See PHOTOGRAPH 6).

No emergency action plan exists for the project.

c. Appurtenant Structures

The gate valve for the reservoir drain was operated during the inspection. The lifting of the gate and discharge through the drain appeared normal. The crank wheel used to operate the valve is located at the Blind Brook Country Club Maintenance Shed. The pumping machinery and its supports appear to be in good condition (See PHOTOGRAPH 6).

d. Downstream Channel

The downstream channel of the spillway is Blind Brook. The channel contains natural boulders and fallen trees, and for the most part, is clear of debris (See PHOTOGRAPH 7).

e. Reservoir Area

The reservoir area consists of flat to gently rolling terrain. Immediately upstream and downstream of the dam are outcrops of bedrock. The slopes in the reservoir area appear stable, with no signs of past movements. There appears to be no sedimentation problems in the reservoir area.

f. Abutments

Seepage was observed occurring at both the right and left abutment contacts about one or two feet below the top of the dam (See PHOTOGRAPHS 8 and 9). The quantity of flow at each location could not be measured, but is estimated to be less than 1 gpm. The seepage appears to be occurring through the discontinuities in the rock at the abutment contacts. Since the abutments are hard rock, little to no erosion is occurring at these locations.

3.2 EVALUATION OF OBSERVATIONS

Visual observations made during the course of this inspection did not reveal serious problems which would adversely affect the adequacy of the dam and its appurtenant facilities. The following summarizes the encountered problem areas, in order of importance, with the recommended remedial action:

- 1. The seepage which is occurring at each of the abutment contacts should be monitored periodically with the aid of weirs or other measuring devices. Document this information for future reference.
- 2. Monitor by visual inspection the leakage through the structural cracks and vertical and horizontal lift lines along the downstream face. At the time when the reservoir is emptied, inspect the upstream surfaces to determine if the cracks are continuous through the dam.
- 3. Provide a program of periodic inspection and maintenance of the dam and appurtenances, including yearly operation and lubrication of the reservoir drain and its control facilities. Document this information for future reference. Develop an emergency action plan and periodically update during the life of the structure.

SECTION 4 - OPERATION AND MAINTENANCE PROCEDURES

4.1 PROCEDURES

No written operation and maintenance procedures exist for the project. The normal operation of the project consists of allowing water to flow over the spillway. According to Mr. Antorino, the reservoir drain is used to lower the reservoir in anticipation of major storms and also each November to drain the reservoir.

4.2 MAINTENANCE OF DAM

It is reported that maintenance of the dam is performed when the need arises. Although there is no formal procedure for maintaining the dam, the maintenance is considered to be adequate.

4.3 WARNING SYSTEM IN EFFECT

No warning system is in effect or in preparation.

4.4 EVALUATION

The overall condition of the dam and appurtenant structures appears to be good. Recommendations in connection with regular maintenance are discussed in Section 7.

SECTION 5 - HYDROLOGIC/HYDRAULIC

5.1 DRAINAGE AREA CHARACTERISTICS

The Blind Brook Dam is located on the Blind Brook just south of Anderson Hill Road and about 0.75 miles north of the Hutchinson River Parkway and the town of Rye in Westchester County, New York (Hydrologic Unit Code No. 02030102). The rectangular shaped basin extends north about 3-1/4 miles into Fairfield County, Connecticut. Maximum basin width is about 0.75 miles, and the area is 1.79 square miles. The average slope of the brook is about 0.012 ft/ft, rising from a normal pool elevation of 230 feet (MSL) to over 460 feet at the northern end of the drainage area.

The basin, as outlined on the USGS Glenville Quadrangle Map, is mostly undeveloped except for the Westchester County Airport.

5.2 ANALYSIS CRITERIA

The analysis of the adequacy of the spillway was performed by developing a design flood, using the unit hydrograph method and the Maximum Probable Precipitation (PMP). The all season, 200 square mile 24 hour PMP for Westchester County of 22 inches was obtained from Weather Bureau sources (2). Snyder's unit hydrograph coefficient, developed for the Blind Brook Basin in a previous study (2) of 1.47 and 0.68 for CT and Cp, respectively, were used for this analysis. Loss parameters of 2.0 inches and 0.17 inch/hour for the initial and constant losses were also adopted.

In accordance with the Recommended Guidelines for Safety Inspection of Dams $^{(3)}$, the adequacy of the spillway was analyzed using the Probable Maximum Flood (PMF). A multi-plan analysis was performed for the 0.25, 0.50, 0.75 and 1.00 PMF.

5.3 SPILLWAY CAPACITY

The ungated concrete spillway, with a crest elevation estimated to be 230 feet (MSL) is centrally located on the dam. The effective width of the spillway is 45.0 feet, with a 10 inch (0.83) thick walkway 2.0 feet above the crest. The computed maximum spillway discharge with the pond elevation at 232.83 feet (top of dam) is 670 cfs, or 16 percent of the PMF before the dam is overtopped.

5.4 RESERVOIR CAPACITY

The normal reservoir capacity is listed as 26 acre-feet at spillway crest elevation (230.0+) and 50 acre-feet at the top

of the dam (El 232.83). The surcharge storage between spillway crest and top of dam of 24 acre-feet is equivalent to about 0.25 feet of runoff over the entire drainage basin.

5.5 FLOODS OF RECORD

There are no records of floods or maximum reservoir elevations at the dam, however, at the Blind Brook gage at Rye (D/A 9.20 miles) approximately two miles downstream of the dam, the maximum recorded flood was 2,320 (about 40-50 percent PMF) on June 19, 1972.

5.6 OVERTOPPING POTENTIAL

The potential of the dam being overtopped was investigated on the basis of the spillway capacity and the available surcharge storage to meet the selected design flood inflows.

The analysis was performed assuming that (i) the water surface in the reservoir was at spillway crest elevation (230.0 feet) at the start of the flood event, and (ii) that the low level outlet was closed.

The PMF routed through the reservoir resulted in the dambeing overtopped as follows:

KATIO OF PMF	PEAK INFLOW	PEAK OUTFLOW	OVERTOPPING
1.00	3901 cfs	3873 cfs	2.96 ft.
0.75	2926 cfs	3021 cfs	2.39 ft.
0.50	1959 cfs	1982 cfs	1.59 ft.
0.25	975 cfs	977 cfs	0.57 ft.

The spillway is capable of passing only 17.3 percent of the PMF before the dam is overtopped.

5.7 EVALUATION

The principal spillway of the Blind Brook Country Club Dam has insufficient capacity to pass either the PMF or one-half (1/2) PMF without overtopping the dam. The overtopping of the dam could cause the failure of the dam, thus significantly increasing the hazard for the loss of life downstream. The spillway is therefore assessed as "seriously inadequate" and the dam is assessed as unsafe, non-emergency.

SECTION 6 - STRUCTURAL STABILITY

6.1 EVALUATION OF STRUCTURAL STABILITY

a. Visual Observation Visual observation did not indicate conditions which would affect the structural stability of the dam. The observed seepage at the left and right abutment contacts and the structural cracking along the downstream face of the right non-overflow section are not detrimental to the stability or safety of the dam at the present time.

b. Design and Construction Data
The original design computations regarding the structural stability of the dam are not available.

c. Operating Records
There are no operation records available. No major operation problems which would affect the stability of the dam were reported.

d. Post-Construction Changes
There are no recorded post-construction changes. However, the available drawings presented in Appendix A show that only four (4) spillway sections, rather than six (6) which were observed, were designed.

e. Seismic Stability
According to the recommended Corps guidelines, the dam is located in Seismic Zone No. 1; therefore, no seismic stability analysis for this dam was performed.

6.2 STRUCTURAL STABILITY ANALYSIS

A structural stability analysis on what was determined from the drawings to be the maximum typical section was performed. In addition the analysis was performed inaccordance with recommended guidelines (Ref. 3). The following tables list each of the cases analyzed and the results of the analysis.

Case	Description of Loading Conditions
I	Normal Loading, Lake Level at El 108.0, No Tailwater, Full Uplift
ΙΙ	Same as Case I, with 5 K/LF, Ice Load
III	Unusual Loading, 1/2 PMF, Lake Level at El 112.42, Tailwater 6.6 Feet
IV	Extreme Loading, Full PMF, Lake Level at El 113.79, Tailwater 7.5 Feet

SUMMARY OF RESULTS

Case	Location of Resultant	Sliding Factor of Safety
I	2.27 feet Outside Middle Third	1.66
11	6.36 feet Outside Middle Third	1.44
III	7.97 feet Outside Middle Third	1.15
IV	10.33 feet Outside Middle Third	1.03

The results of the analyses indicate that the stability of the dam is inadequate in overturning and sliding for all loading conditions considered. The analysis, however, may not indicate the actual material properties of the foundation nor the actual loading conditions. Therefore, it is recommended that an in-depth engineering stability analyses of the structure be performed.

SECTION 7 - ASSESSMENT/RECOMMENDATIONS

7.1 ASSESSMENT

a. Safety

Phase I investigation of Blind Brook Dam did not indicate conditions which constitute an immediate hazard to human life or property. Based on engineering judgment and the performance of the dam, the project appears to be in fair condition. The project, however, does have inadequacies and deficiencies which, if not remedied, have the potential for developing into hazardous conditions.

Using the Corps of Engineers screening criteria for review of spillway adequacy, it has been determined that the dam would be overtopped for all storms exceeding approximately 17 percent of the Probable Maximum Flood (PMF). The overtopping of the dam could result in a failure of the dam thus increasing the hazard to loss of life downstream. The spillway is, therefore, adjudged as "seriously inadequate" and the dam is assessed as unsafe, non-emergency.

The classification of "unsafe" applied to a dam because of a "seriously inadequate" spillway is not meant to connote the same degree of emergency as would be associated with an "unsafe" classification applied for a structural deficiency. It does mean, however, that based on an initial screening and preliminary computations, there appears to be a serious deficiency in spillway capacity so that if a severe storm were to occur, overtopping and failure of the dam would take place, significantly increasing the hazard for loss of life downstream from the dam.

Structural stability analyses based on available information and the visual inspection indicate that the stability of the spillway section against overturning and sliding is inadequate for all loading conditions.

b. Adequacy of Information
The information and data available were adequate for the performance of this investigation.

c. Need for Additional Investigations
A detailed hydrological/hydraulic investigation of the structure should be undertaken to more accurately determine the site specific characteristics of the watershed. In addition it has been found on the basis of screening analyses of stability, that the overflow section of the dam does not meet current criteria under flooding conditions equal to half (1/2) PMF and PMF. Further analysis of the structural stability of the spillway should be performed at the same time.

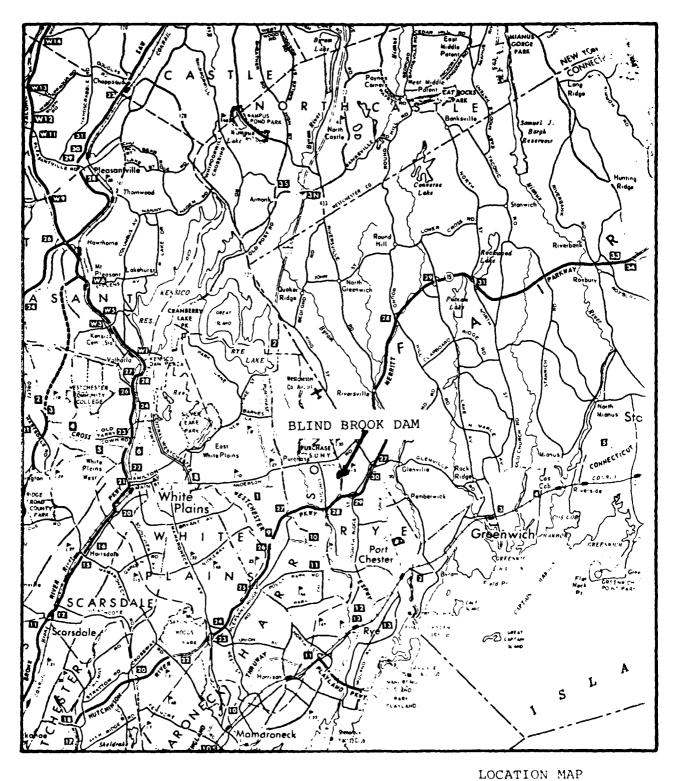
d. Urgency

The additional hydrologic/hydraulic investigations and the structural stability investigations which are required must be initiated within 3 months from the date of notification. Within 18 months of notification, remedial measures as a result of these investigations must be initiated, with completion of these measures during the following year. In the interim, develop an emergency action plan for the notification of downstream residents and proper government authorities in the event of overtopping and provide around-the-clock surveillance of the dam during periods of extreme runoff. The other problem areas listed below must be corrected within one year from notification.

7.2 RECOMMENDED MEASURES

- 1. The results of the aforementioned remedial measures will determine the appropriate remedial measures required.
- 2. Monitor periodically with the aid of weirs or other measuring devices the seepage which is occurring at each of the abutment contacts. Document this information for future reference.
- 3. Monitor by visual inspection the leakage through the structural cracks and vertical and horizontal lift lines along the downstream face. At the time when the reservoir is emptied, inspect the upstream surfaces to determine if the cracks are continuous through the dam. Document this information for future reference.
- 4. Provide a program of periodic inspection and maintenance of the dam and appurtenances, including yearly operation and lubrication of the reservoir drain and its control facilities. Document this information for future reference. The aforementioned emergency action plan should be maintained and updated periodically during the life of the structure.

DRAWINGS



Blind Brook Dam
Plate

SCALE

C 1 2 3 4 Miles



PLATE 2

Form 1-A

SPRAGUE & HENWOOD, Inc. SCRANTON, PA.

FOUNDATION TESTING and SCIL SAMPLING RECORD tame: Turner Construction Co. _____ tartier Errison, Hey York SURFREE TO 10-14 SLOWS IN CASING SPOON SAMPLE AND CORE DATA BORING LOG 70.1 BLO#S | TE DEPTH DEPTH DESCRIPTION CN FOTA CORE RECUVO -- NO. PC. OF MATERIAL FROM -TO : SAMPLES ... REVARES * Soft Decomp. Rock and "Fill" 312" 312" Med. to Hard Rock to 1916" Run 3'2" to 8'2" Rec. 32" Pos. 13 & Frags. Rin 8'2" to 13'2" Rac. 18" For. 7 & Frags. Run 13'2" to 19'6" Rec. 18" Pos. 6 & Frags. 7# 77 11 72 . . c. 82 25.5 Distance Hammer Drop 24-30 Jack 11-12 Drive Hammer 300 Lbs. 47-44 2 Inch 15:47 2 Inch 46:45 Caring Sine Store & Since Size of Core Bit _ AX tarb w-51 "Classification of Soil has been made by the driller and has not been checked by a soils engineer. Classification of rock has been made by the driller and has not been checked by a geologist. priller Wilfred Biron melger Gilbert Killer under Remarks, mention kind of git, loss of sample, loss of grilling unter, saft seas, or promen rock, raving, cavities, whusual Ground water randstions, etc., at cepth encountered.

SPRAGUE & HENWOOD, Inc. scranton, Pa.

FOUNDATION TESTING and SOIL SAMPLING RECORD

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SPRAGUE & HENMOOD, inc. scranton, PA.

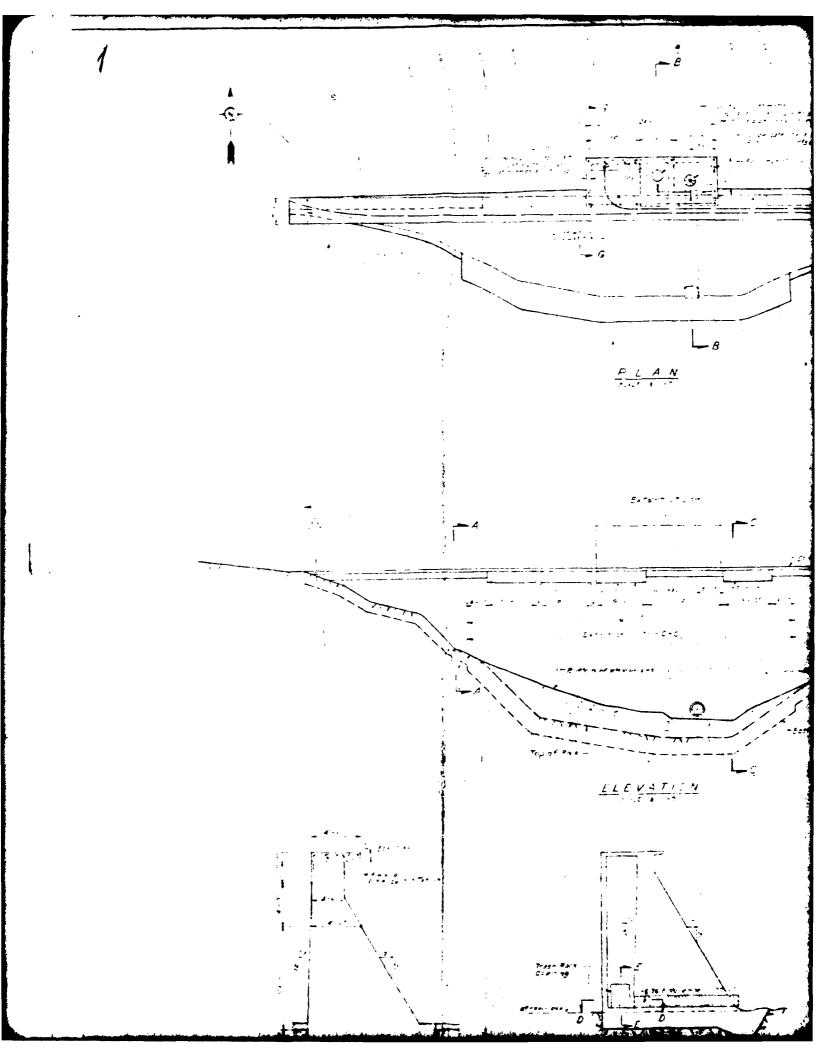
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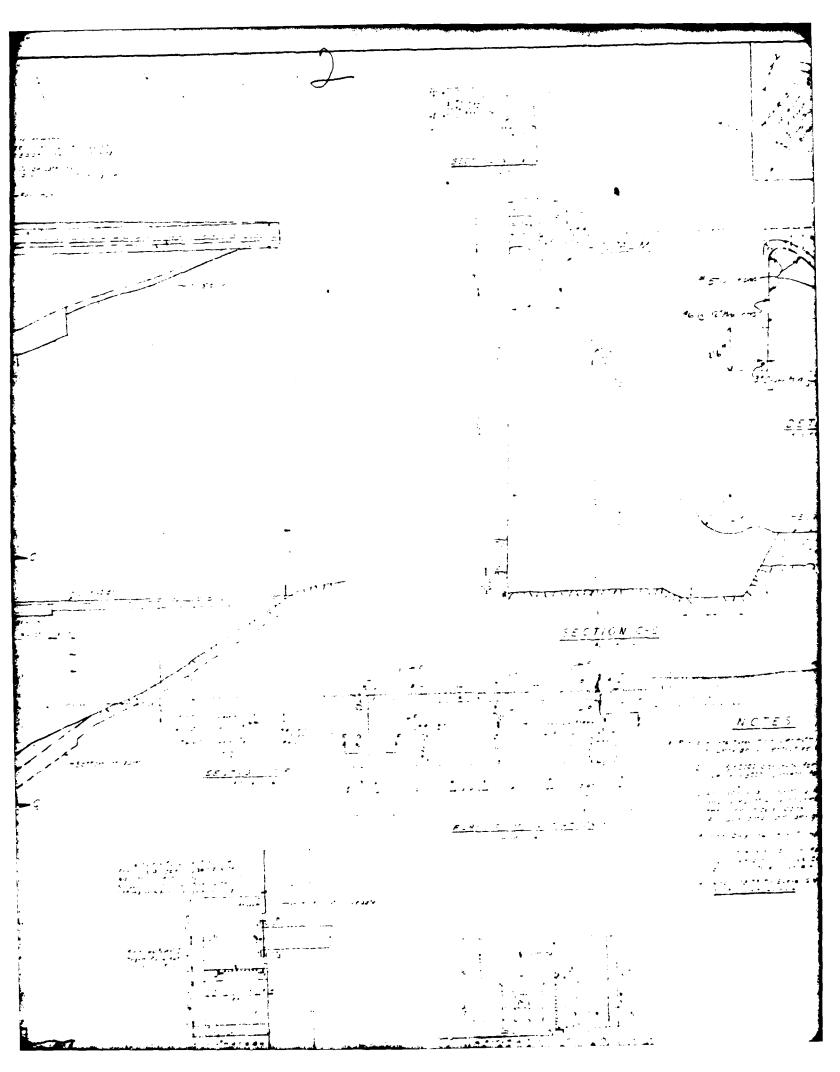
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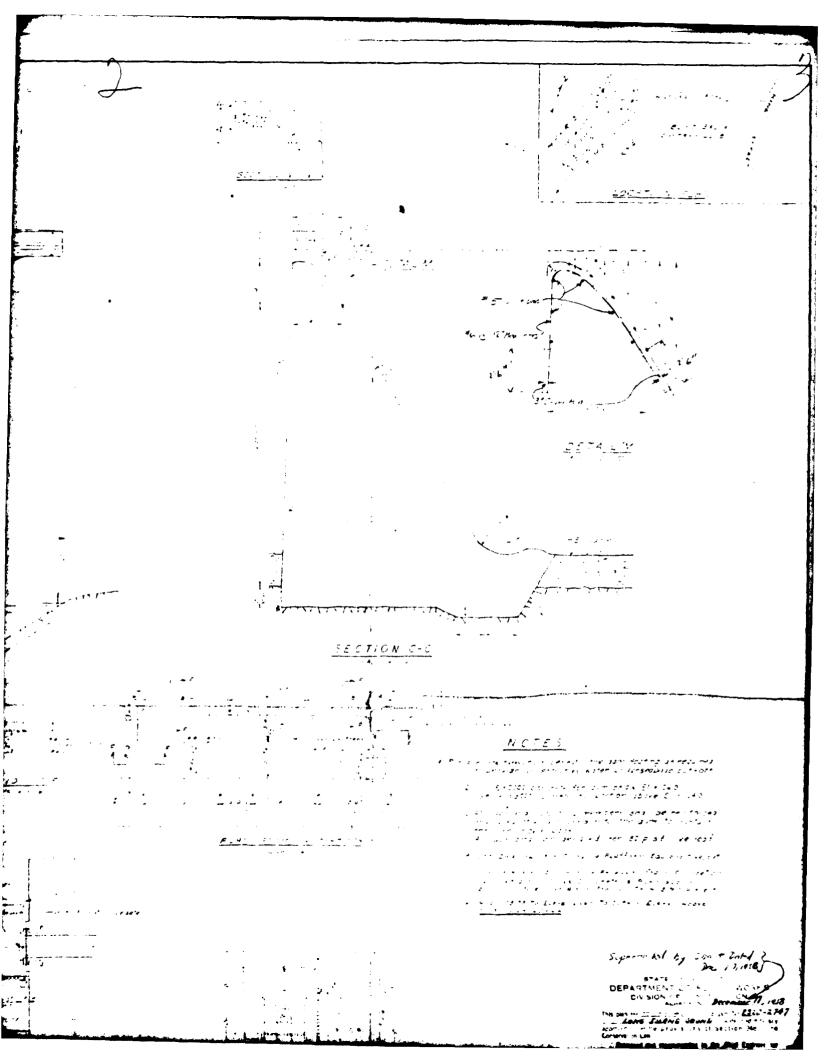
SPRAGUE & HENWOOD, Inc. SCHANTON, PA.

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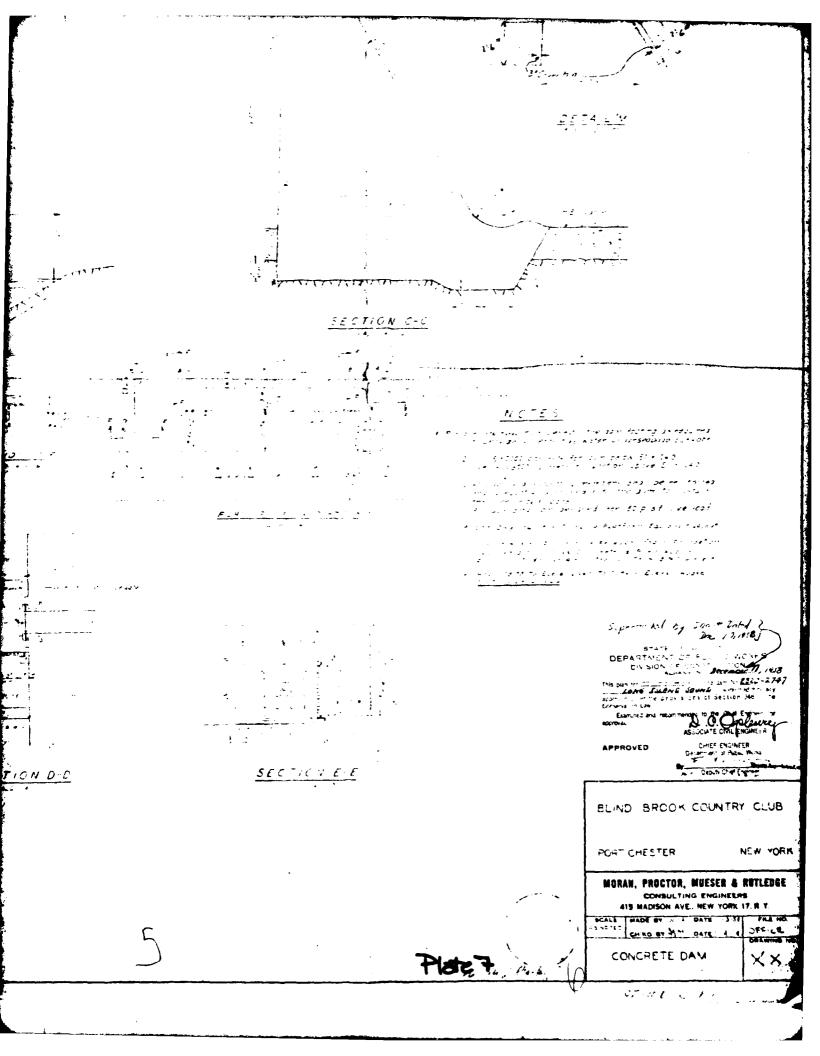


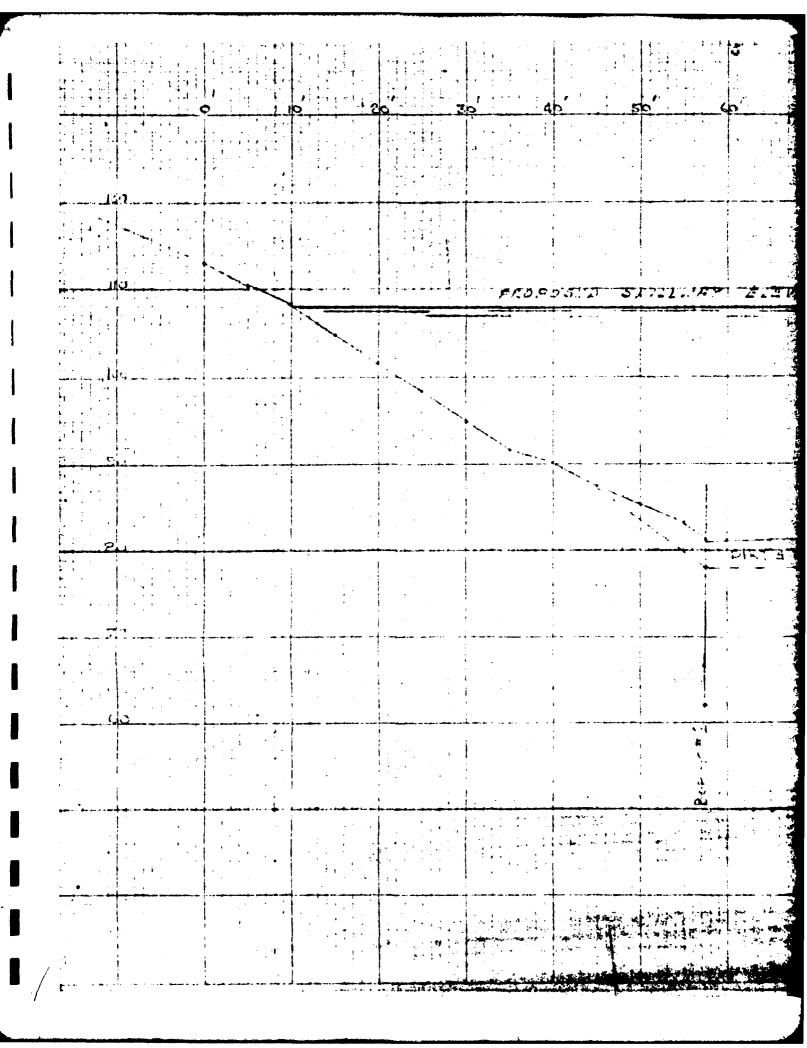




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PHOTOGRAPHS

APPENDIX B



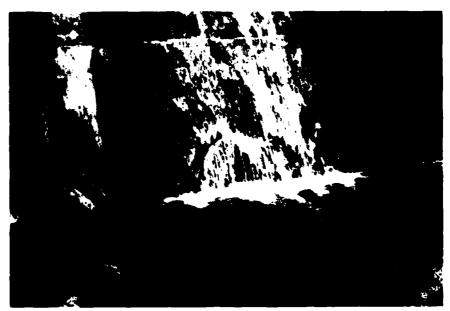
PHOTOGRAPH 1. CONDITION OF VISIBLE CONCRETE AT DOWNSTREAM FACE OF DAM



PHOTOGRAPH 2. CONDITION OF CONCRETE AT UPSTREAM FACE OF DAM



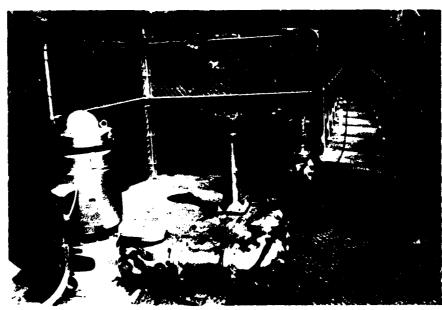
PHOTOGRAPH 3. STRUCTURAL CRACKING ALONG DOWNSTREAM FACE OF NONOVERFLOW SECSECTION



PHOTOGRAPH 4. DETERIORATION OF CONCRETE ALONG HORIZONTAL CONSTRUCTION JOINTS



PHOTOGRAPH 5. SEEPAGE THROUGH STRUCTURAL CRACKS IN RIGHT NONOVERFLOW SECTION



PHOTOGRAPH 6. CONDITION OF CONCRETE AT CREST (OBSERVE GOOD CONDITION OF MACHINERY)



PHOTOGRAPH 7. CONDITION OF DOWNSTREAM SPILLWAY CHANNEL

PHOTOGRAPH 8. SEEPAGE AT LEFT ABUTMENT CONTACT





PHOTOGRAPH 9. SEEPAGE AT RIGHT ABUTMENT CONTACT

VISUAL INSPECTION CHECKLIST

APPENDIX C

VISUAL INSPECTION CHECKLIST

Ger	neral	•	•			
Na	me of Dam	Blind Broom	K Dam		_	
Fee	d. I.D. #	NY123		DEC Dam No.	232C-2747	
Ri	ver Basin	Blind Brow	ok Basin		-	
Loc	cation: 1	own Purchas	sc	County _	Westchester	
St	ream Name	Blind Broo	K			
Tr	i>utary of	Unknown				
Lat	titude (N)	42 - 02	2.1'	Longitud	ie (W) 073°-41.4′	
Тур	pe of Dam	Concrete 6	fravity Stru	icture with	6 center ogec-type spill	w
		ory High		lac	h 9'x-3' wide separated b thin vertical concrete	4
•		nspection <u>0</u>	12 April 81		approx. 2'high	
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a.	Char	racteristics				
	(1)	Embankment Naterial Not Applicable				
	•					
	(2)	Cutoff Type Not Applicable				
	(3)	Impervious Core Not Applicable				
	(4)	Internal Drainage System Not Applicable				
	·· (5)	Miscellaneous Not Applicable				
• •	(-)					
b.	Cres	t				
	(3.)	Vertical Alignment Not Applicable				
	(2)	Horizontal Alignment Not Applicable				
	(3)	Surface Cracks Not Applicable				
٠	(4)	Miscellaneous Not Applicable				
c.	Upst	ream Slope				
•	(1)	Slope (Estimate) (V:H) Not Applicable				
· .	(2)	Undesirable Growth or Debris, Animal Burrows Not Applicable				
	(3)	Sloughing, Subsidence or Depressions Not Applicable				
. •						

(5)	Surface Cracks or Movement at Toe Not Applicable
Down	stream Slope
(1)	Slope (Estimate - V:H) Not Applicable
(2)	Undesirable Growth or Debris, Animal Burrows Not Applicable
(3)	Sloughing, Subsidence or Depressions Not Applicable
	·
(tt)	Surface Cracks or Movement at Toe Not Applicable
(5)	Scepage Not Applicable
(6)	External Drainage System (Ditches, Trenches; Blanket)
	Not Applicable
(7)	Condition Around Outlet Structure Not Applicable

(2)	Secrage Along Contact Not Applicable
•	
•.	
<u>Drainago</u>	e System
a. Desc	eription of System None
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h Coni	lition of System None
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Reservoir

- is part of the Blind Brook Golf Course. The left slope is wooded and flat to gently rolling
- drained each November thereby virtually eliminating sedimentation during the winter months
- c. Unusual Conditions Which Affect Dum None

6) Area Downstream of Dam

- a. Downstream Hazard (No. of Homes, Highways, etc.) There are a large number of homes downstream of the dam, which are visible from the damsite.
- No seepase was observed through dis rock outcroppings or overlying soils

 No boils were observed in soils

 c. Evidence of Movement Beyond Toe of Dam None observed
- d. Condition of Downstream Channel The downstream channel consists of small to large boulders. There is minimal debris which should not restrict flowing the dischannel The channel width is medium-wide

Spillway(s) (Including Discharge Conveyance Channel)

The spillway consists of six overflow sections, approximately 9 feet in width the two middle sections are slightly lower in clevation than the adjacent sections. Each section is uncontrolled. The sections are separated by this vertical

- a. General concrete walls. The walls support the walkway at the top of the dam. Upstream of the 2 center spillway sections is a cantilevered concrete platform which supports pumping machinery and the reservoir drain control facilities.
- b. Condition of Service Spillway The service spillway Appears to be in

 good condition There is little deterioration and crossion along the

 d/s surfaces. Since the reservoir is drained each winter season, little

 to no freeze thow action, and subsequent deterioration occurs. Although

 the upstream surfaces were uninspected, for the above reasons they

 they are believed to be in good condition. (See Sheet 7 for additional

 comments concerning structural eracks, etc.)

 Sheet 5

-	Condition of Auxiliary Spillway Not Applicable
•	Condition of Discharge Conveyance Channel See Sheet (5) topic
	"Area Downstream of Dam"
se	ervoir Drain/Outlet
•	Type: Pipe Conduit Other
	Material: Concrete Metal Other
	Size: 24" Length 25± feet
	Invert Elevations: Entrance UnKnown Exit UnKnown
	Physical Condition (Describe): Unobservable
	Material: Unobserved
	Joints: Unobserved Alignment Unknown
	Structural Integrity: Appears to be in good condition. Mr
	Antorino operated the drain, flow appeared to be normal.
	Hydraulic Capability: See Structural Integrate
	Means of Control: Gate Valve Uncontrolled
	Operation: Operable Inoperable Other
	Present Condition (Describe): The valve is operational. The

')	Str	ueurai.
•.	a.	Concrete Surfaces The concrete surfaces are in good condition. There
		is little deterioration spalling excrosion of these surfaces, except
		ationstruction lift lines.
	· Ъ.	Structural Cracking Some structural cracking exists at the right
	•	nonoverflow section of the dam (Three major cracks were observed)
į	•	
-	c.	Movement - Horizontal & Vertical Alignment (Settlement) The vertical
		and horizontal alignments are good It is uncertain as to whether
ž.		the forementioned cracks are due to settlement,
	d.	Junctions with Abutments or Embankments The dam : appears to be
İ		tied in well with the rock abutments. There is a seepage
		Condition at each abutment, however, as described below.
1		
i	· o	Drains - Foundation, Joint, Face None were observed nor shown
ŧ		
		on the drawings
!		Water Passage Conduits Cluicos Nose
ļ	f.	Water Passages, Conduits, Sluices Nonc
	٠.	
1		occurred at each of the abutment
1	. g•	Seepage or Leakage Some Seepage at each of the abutment
1		contacts. The seepage was estimated at less than Igpm. It
)		appears that at both abutments, the seepage is occurring
1		in the discontinuities in the rock
		,

	along vertical and horizontal lift lines However, this does not
	apples to be a serious problem
	Foundation The foundation of the dam is rock. It appears to be
•	hard and resistant to erosion
•	
1	Abutments See (9)
-	
(Control Gates <u>None</u>
ļ	Approach & Outlet Channels <u>None</u>
Ì	Energy Dissipators (Plunge Pool, etc.) None
_	
)	Intake Structures None
_	
S	stability The dam appears to be stable under the observed
	conditions
	discellaneous None .
ŀ	

10)	Appurtenant Structures (Powerhouse, Lock, Gatehouse, Other)
	a. Description and Condition Machinery and piping
	equipment for irrigation of the golf course are
	equipment is in exactlest assisting and in regularly maintained by Courter Mul-price
	equipment is in excellent and to and in
	regularly maintained by Courter Mut- price
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HYDROLOGIC DATA AND COMPUTATIONS

CHECK LIST FOR DAMS HYDROLOGIC AND HYDRAULIC ENGINEERING DATA

AREA-CAPACITY DATA:

•		Elevation (ft.)	Surface Area (acres)	Storage Capacity (acre-ft.)
1)	Top of Dam	232.8	Unknown	<u> 50</u>
2)	Design High Water (Max. Design Pool)	Unknown	UnKnown	UnKnown
	Auxiliary Spillway Crest	Not Applicable	(e(NA) NA	
4)	Pool Level with Flashboards	<u>Not Applicabl</u>	le(NA) NA	NA
5)	Service Spillway Crest	230.	VnKnown	26

Volume

DISCHARGES

•		(cfs)
1)	Average Daily	UNKNOWN
2)	Spillway @ Maximum High Water (707 of 344)	670
?)	Spillway @ Design High Water	Unknown
4)	Spillway @ Auxiliary Spillway Crest Elevation	Not Applicable
5)	Low Level Cutlet .	Unknown
6)	Total (of all facilities) @ Maximum High Water	670+
7)	Maximum Known Flood at U165 Garge 06/19/72	2320
8)	At Time of Inspection	UnKnown

CREST:	ELEVATION: 108±
Type: Ogec-type (s	ir sections
Width: about 3 feet	each Length: 9fect Each
<u>.</u>	
Location Center of dan	
SPILLWAY:	
SERVICE	AUXILIARY
108±	Elevation
. Ogec-type	Туре
9'x Grection = 54'	Width
Ŀ	ype of Control
	Uncontrolled
	Controlled:
	Туре
(r ia:	shboards; gate)
	Number
Į.	Size/Length
	vert Material
	icipated Longth perating service
	Chute Length
	Between Spillway Crest
	roach Channel Invert (Weir Flow)

		• •	•	
Type: <u>None Used</u>				
Location: NA	•			
Records:	-		•	
Date - N.A.				
Max. Reading - N.A				
FLOOD WATER CONTROL SYSTEM: Warning System: None			· · · · · · · · · · · · · · · · · · ·	
Method of Controlled Releases (mechanisms):	:		
36" metal pipe	at base a	of dam and	L control	
facility at top	of dam (c	enter-risin	g screw-7	- tyj
Valve		t	; 	t'

	N RUNOFF CHARACTERISTICS:
	- Type: Mostly unequeloses Woodling + Headow will County airport in U.
Terrain -	Relief: tolling with gentle to moderate slopes
	Soil: Glacial Till
Runoff Po	tential (existing or planned extensive alterations to existing (surface or subsurface conditions) Un Known
Potential	Sedimentation problem areas (natural or man-made; present or future UnKnown
	Unknown
	UNKNOWN
	Unknown
	Backwater problem areas for levels at maximum storage capacity luding surcharge storage:
	Backwater problem areas for levels at maximum storage capacity
	Backwater problem areas for levels at maximum storage capacity luding surcharge storage:
inc Dikes - F	Backwater problem areas for levels at maximum storage capacity luding surcharge storage:
inc	Backwater problem areas for levels at maximum storage capacity luding surcharge storage: None loodwalls (overflow & non-overflow) - Low reaches along the
inc 	Backwater problem areas for levels at maximum storage capacity luding surcharge storage: None loodwalls (overflow & non-overflow) - Low reaches along the ervoir perimeter:
Dikes - F Res	Backwater problem areas for levels at maximum storage capacity luding surcharge storage: None loodwalls (overflow & non-overflow) - Low reaches along the ervoir perimeter: ation: None vation:

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Subject HYDROLOGI	c/ HyDRAULIC	INVESTIGATION COMPUTATIONS	By
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RAINFALL	Losses	(from Ref 1)	<u>XII</u>
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TAMS

Job No Project - Subject -	PLINE BROOK COUNTRY CLUB DAM. HYDROLOGIC / HYDRAULIC COMPUTATIONS	Sheet 3 of 19 Date APR 14 8 By 0.2.C
	EFFECTIVE CROST LENGTH 54.0.	
	From over Spillway with 2.0 hears.	
	Q = 3.09 × 36 × 2 ³ / ₂ = 315	for 4 open
	Q = 309 × 18 × 253/2 = 720	222.02
	ca below walkingy. Top of Whiteway El (18 x 2.5) + (36 x 2) Botom of Walkway E	
	45 + 72 117 11	
	· · · · · · · · · · · · · · · · · · ·	0.63. A V29 H
	measured from topof dam walkway (EL 232.83) to	
	SPILLWAY KATING TABLE	(EL 1231.0)
	29.5 ± 0	
	32· 535 232·83 673	
2	-42 1650	
	EL 242 H = 242 - 231 = 11.0') N OVCE DAM INCLUDES FLOW OVER WALKWAY = 1	L= 130+54 = 180

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STABILITY ANALYSIS

Job No. 157 Project Blog Subject St	Sheet of 11 Shook Cantry Cho-Phan I Traport of Date April 29 1981 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11 Sheet Of 11	
Loadina Cas	onditions Description	
工	Normal Loading - Lake Level at Overflow Section Crest Elevation (EL. 108)*	L
I	Normal Loading-as in Case I with an addition	al inst-
		*

Unusual Loading - Lake Level at 1/2 PMF (EL. 112.72)*
Extreme Loading - Lake Level at full PMF (El. 113.79)*

* Elevations are as chown on drawings ie El 108 = 230. (MSL)

	Stability and Overturing C	11toria (Recommended quellinis
Case	Coxation of Rosultant	Fritin Factor of Safaty
\mathcal{I}	middle third	7 3.0
I	middle third	フ 3.0
I	middle Humer	> 3.0
TV_	middle third	7 3.0

Assumptions

TIL

M

1. The configuration of the Spillury Section is as shown on Phile a 2. The dam is assumed to be founded on rock. The showing the stark and spillury convicte best is a c=1.1 and p=40 three The rock and spillury convicte best is a c=1.1

Job No. 1579-11

Project Blind Brook Country Club - Physe I I reprint Date 4/29/16/1

Subject Stability Analysis

Ch'k. by 12

Computation of Center of Gravity

4

(See Figure 1)

A. Dead Loads

Fv. (kp) MA (kf)

Wi= .150 x 3 x 32 = 14.4 x 20.50 = 295.2

Wa= .150 × 32/2 × 18 = 43.2 × 13 = 561.6.

W3= .150 × (1+65)/2 × 5= 2.8 × 0.50 = 1.4

2Fy= 14.4+43.2+2.8=60.4K, 2194=2952+561.6+1.4 = 858.2

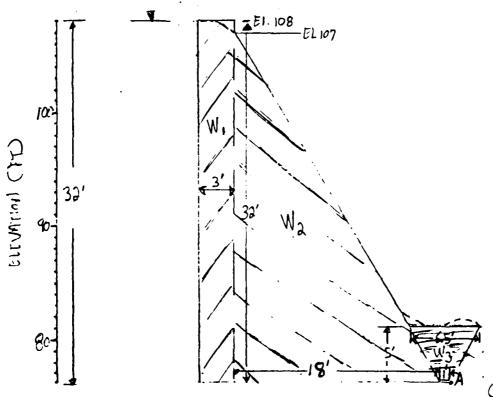
X= &Ma = 8582 = 14.2'

Project Blind Blook Country Clin: Project I Inspation Date 4/29/61

Subject Standing Arraysis.

Ch'k, by JP

Computation of Center of Gravity



Tolgo.75*5*(5-5/3)+5*1*2.5).15

W3

3.13

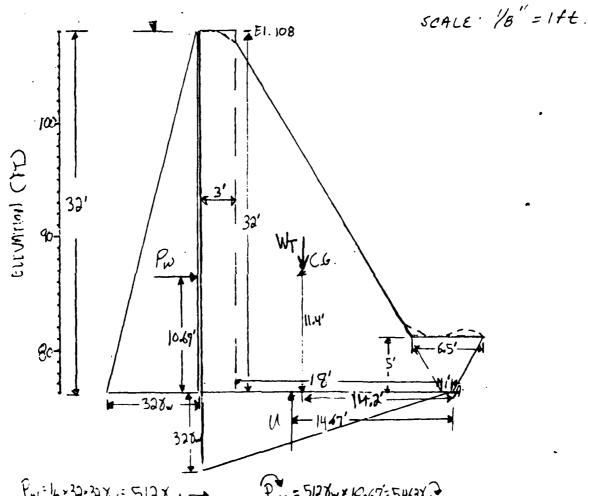
X @ \(\ell = .5' \) From PT. A

Scale 18" = 19t.

Figure 1

lob No. 1579-11	Sheet 4 of 17
Project Blind Brook Country Club: Prove I Invention	Date 4/24/61
Subject Stading Arrives	By G.P.M.
9,	Ch'k. by

Case I: Normal Loading Condition Clake Level @ Spillung Cirst)



Fw=16-32-32 7w= 512 8w →

PWA = 5128~ x 10.67=54638~

U=1/2×22×328w=3528w4

. Uz = 3528wx 1467'=51638w7

Scale 16" = 19t.

WT= 60.4K × TW = 9688ml -0624K

Win = 966 8 × 142=13746 859

7 < 07e 2

IAMS			
Job No. 1879-11 Project Blind Brook Country Club - Phase T Insporting Subject Stability Analysis	Sheet		
CASE 1 Normal Loading Condition (Lake Level & - SEE Figure 2. 2FH = 512 VW -> (KILF) 2Fv = Wh-U= 9688w-3524x.v= 6168w V.(K/LF).	e Spillulay Crest)		
EMpesisting: Wha = 13746 8w3 (E-FTILE). 2 Mariny = PVA + UA = 5463 8w+51638w: 106267w Location of Resultant @ Base	(*-FT/LF)		
X (-501) = 5 (Mr - Ma) = 13746 Xw-10636 Xw =	•		
	out demiddle Third		
S. F.F.S. = 2Futand, = 616 8w tan 40°-	21(1)		

S.F.F.S. = 1.66 43.0

	·/ 1t
Project Blind Blook Country Club: Marco I	Sheet 6 of 11 Lossotion Date 430/61
	Date 1/50%
Subject Stadi Manisis	
Case II Normal Loading with Ice bood	Ice Thickness: 19th 1ce Pressure = 5000 lbs/LF=80.
100 32' 31.5 32' 32' 32' 32' 32' 32' 32' 32' 32' 32'	65'-A
Fron Figure a, R. 3 PWA = 54638W, 17 = 51628W, 17A = 3746	
Zh = 512711(見り+ 厚= 513711+なり、1=5	(1) (4,1)
2Fv = 616 2m7 (K/LF) (7-1-1)	
12 = 80.18 wx1.5= 2502 : 1.	Scale 1/6" = 19t.
€11,= 211	u [']
21): (11), = 106268, 100, 1 - FZA = 10626	14 TO 300 = 13145 JW 1 P 1 111).

Job No. 1579-11 Project Blind Brook Country Club- Phase I Inspection Stablisty Analysis	Sheet of
Subject Stablishy Hallysis	By G.P.M.
9 , , 2	Ch'k. by JP

CASE II: Namel Loading with I are Load

7.33'-.97 = 6.36 ft Outside Middle third of.

Siear Friction Factor of Safrty

S.F.F.S = EF.tano+CA = 618 Divilan 400 + 21(1)

EFN 59218W

S, F, F. S. = 1,44 43.0

Job No.	1579-11	Sheet of
Project	Blind Brook Country Club: Phase I Insportion	Date 4/30/6/
Subject	Stability Andrew	By (2.5.11).
		Ch k. by
	Case III: Unusual Locking (1/2 PMF) I)pstroam@117.42;	E1. = 74+6.6 = 82.6'
	4.867m = 4.42+36+2, 32 > 0 = 1 Location of Par = 9pw	6538w Klif
•	= 328w (32x4A2; 1/2	
0	$\frac{327 \text{ w} (4.42 + \frac{1}{2})}{\sqrt{9} = 11.9'}$	6.42-4.42
eceumtion (Pt	32' Pwn = 65	3 Nw x 11.5: 7705 YW (k. 4/LF)
erew	For the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	•
80	18'	66 = 6.6/3 = 2.00
	36. 5m	6.6341 P=1.1((,2)x.1
:		= 21.8 % = 1/11
Ų.	pliff Force = 36.42+6.67w×22=47.37w-U	For F.S. Calcy Use of Pro
1.0	section of Upliff Force: Distance from Pt.A.	
	Xu= 6.6.8 w × 222 + 1/(36.42-6.6) 8 w × 22 × 2/3	sale 16t.
	6.6×228w + (36.42-6.6)×1×220m 7 13.5 Ft, from PT.A.	
	UP = U×13.5 = 4738w > 13.5 = 63860w	

Project Blind Brook Country Club-Prayo I. Transim Date 4/30/81

Subject Stability Analysis

Chik. by JP

Case III: Unusual Loading (1/2 PMF).

ZFH=PW+TW=653 8W=-13.18W==639.98W+

EFV=W+1+Uq=9688Wb-4738W9=4958Wb (See Fig-2 Pg-4

EM W+ and W+A

ZM-=W+A+PWAS=137468WS+3888WS=1377488WS(K-1LF)

ZM=PWA+UA=77056W+63868W=140918W*(K-1LF)

Xros. = 2 (Mr.M) = 13774.88 - 140918 = -0.69

b - 72m = 7.33+064 = 7.97 ft outside middle thind

Shear Friction Factor of Siratio

Shear F.F.S = EF, tand + CA = 4450 w Tando + 1(21)

EF, 654.98 w (

5. F. F. S = 1.15 < 3.0

Job No. 1579-11	Sheet of /
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5.79	Ful Prif): { Upsters. @ 115.79'; { downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' downstrain@ 7.9' down
6. 6 584	FI. 108 Pw= 5.79+37.79 x32 697.3
100	326w(23×579+ ½(32)(37.79-579)) 328w(1.65+12(37.79-5.79))
8	YP= 12.1
32' 37.77 37'	ra'
EUV.	
8c- 1 37.79 1 37.74	18' - 6.5' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' - 10' -
Uplis - Truco = (37.79 · 1)	
Loration of Joist Force	· Diatorica Flore TA
7.9>	1 ft. fice Pt. H.
. Moment about A = U.	= Ux13.4 = 503 8 m x 13.4 = 6740.2 8 W

Project Blind Brook Comical Phase Tongerting Subject Stability Manager	Sheet 11 of 11 Date 430/61 By (3.9.11). Ch'k. by JP
CASE Extreme Loading (FM PMF) PWA = 697.3 × 12.1 = 843.3 k. FT/LF PW = 17.92 Yw = 31.28 w, PWA = 31.28 w × 2.6 Use .6 PW = .6 × 31.28 w = 16.7 %, Use .6 PWA = .6 × 61 ZFH = PW+PW = 697.36 w = 16.7 %, = 678.6 % ZFV = Wrd + U1 = 1688 w + = 503 % w = 4658 ZMr = WTA + PWA = 13746 6 w - 4868 w) = 137946	24 = 48.68.45 √ +/cf.
EMS = PWM + UA = 8437.3 (.+ 6740.2), = = \$\fint \text{Xrs} = \frac{\infty}{\text{Mr-Ni}} = \frac{13794.68}{\text{456}} = \frac{-30++}{3} = \frac{10.33}{3} 5'177. May 8.1 ft ownde third	
$\mathcal{E}_{F,s} = \frac{2F_{s} \tan \phi + \epsilon H}{706.18\%}$ $\mathcal{E}_{F,s} = \frac{708.18 \tan 40}{706.18\%}$ $\mathcal{E}_{F,s} = \frac{708.18 \tan 40}{706.18\%}$	

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REFERENCES

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OTHER DATA

APPENDIX G